

Item Description Item ID

PP extrusion compound Semicondutive Surface quality Typical end product Cables Applications
Insulator screen

PP18920

PRE-ELEC[®] PP 18920 is a semiconductive thermoplastic compound based on polypropylene for cable applications with good low temperature properties. The compound features premium surface quality and dispersion of carbon black. It is easy to extrude with high and consistent level of quality.

Special properties	Unit	Value	Method
Volume resistivity(* Surface resistance	Ω .cm Ω	20 3E+03	PRE021 IEC 61340-2-3
General properties	Unit	Value	Method
Specific gravity Melt flow rate at 230°C	g/cm3 g/10 min	1,06	ISO 1183 ISO 1133
10.0 kg	C	3,5	
Mechanical properties	Unit	Value	Method
Tensile strength(*	MPa	24	ISO 527
Tensile strain at break(*	%	400	ISO 527
Tensile modulus(*	MPa	250	ISO 527



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Processing instructions

Extrusion		Unit	Processing range
EXTRASION	Cylinder temperature profile	°C	170 - 210
	Die temperature profile	°C	180 - 230
	Tool/Roll temperature	°C	90 - 60

Notes

Drying of the product is recommended for 2-4 hours at 60-80°C prior to use.

These parameters are for guidance only. The process parameters should always be optimized for the used equipment. The instructions of the equipment manufacturer should be followed. Caution should be taken when handling molten material as it is extremely hot and may cause severe burns.

<u>Storage</u>

Product-specific details are mentioned in the notes above. The general minimum shelf life for Premix's product is 3 years with the following conditions: 1) original package is unopened, 2) the storage area and conditions provide protection from direct sunlight and significant changes in storage temperature, 3) the product is pre-dried accordingly before use.

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